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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Edward T. Sullivan et al.  
Serial No.: 09/997,626  
Filing Date: November 28, 2001  
Group Art Unit: 2661  
Title: METHOD AND SYSTEM FOR TRANSMITTING  
TRAFFIC IN A VIRTUAL TUNNEL OF A  
TRANSMISSION LINE

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Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231

Dear Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

*Willie Jiles*

Name

*March 7, 2002*

Date of Signature

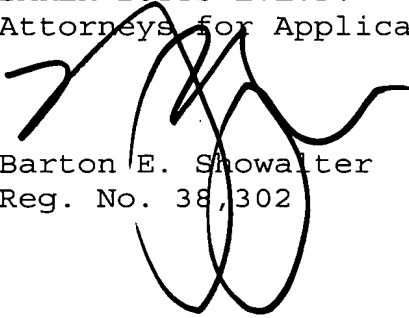
Express Mail No. EL 930010615 US**INFORMATION DISCLOSURE STATEMENT**

Applicants respectfully request, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the reference listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. Copies of these references are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

Pursuant to 37 C.F.R. § 1.97(b), Applicants believe that this Information Disclosure Statement has been filed before

the mailing date of a first action. Therefore, Applicants believe that no fee is due. However, if a fee is required, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,  
BAKER BOTTS L.L.P.  
Attorneys for Applicants



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Date: March 7, 2002

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PTO-1449

Application No.

09/997,626

Applicant(s)

Sullivan, et al.

**Information Disclosure Citation  
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**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	4,893,306	01/09/90	Chao, et al.	370	94.2	11/10/87
	B	5,012,469	04/30/91	Sardana	370	95.3	07/29/88
	C	5,295,140	03/15/94	Crisler et al.	370	94.1	03/28/91
	D	5,278,833	01/11/94	Crisler et al.	370	95.1	03/28/91
	E	5,303,234	04/12/94	Kou	370	85.2	07/15/92
	F	5,796,720	08/18/98	Yoshida et al.	370	245	02/06/96
	G	5,805,568	09/08/98	Shinbashi	370	223	04/03/96
	H	5,920,412	07/06/99	Chang	359	12	04/24/96
	I	5,677,905	10/14/97	Bigham, et al.	370	94.2	03/28/95
	J	5,867,502	02/02/99	Chang	370	477	02/15/96
	K	5,689,506	11/18/97	Chiussi et al.	370	388	04/16/96
	L	5,515,376	05/07/96	Murthy et al.	370	85.13	07/19/93

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							YES	NO
	M	EP 0 700 186 A1	03/06/96	EPO	H04L 12/56	H04Q 11/04	X	
	N	WO 99/09689	02/25/99	PCT	H04J 3/16		X	
	O	EP 0 818 940 A2	01/14/98	EPO	H04Q 11/04	H04L	X	
	P	EP 0 509 648 A1	10/21/92	EPO	H04L 12/56	H04L 12/18	X	
	Q	EP 0 680 235 A1	11/02/95	EPO	H04Q 11/04	H04L 12/56	X	

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	R	"General Aspects of Digital Transmission Systems," XP-002083788, ITU-T Recommendation G.708, <i>ITU-T Telecommunication Standardization Section of ITU</i> , March, 1993, 19 pages.	March, 1993
	S	International Search Report in International Application No. PCT/US00/15331, dated August 31, 2000, 6 pages.	08/31/2000
	T	Wu, et al., "A Broadband Virtual Path SONET/ATM Self-Healing Ring Architecture and Its Economic Feasibility Study," <i>IEEE Global Telecommunications Conference</i> , December 6-9, 1992, 8 pages.	12/6-9/92

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	A	5,130,984	07/14/92	Cisneros	370	94.1	12/18/90
	B	5,537,403	07/16/96	Cloonan et al.	370	60.1	12/30/94
	C	5,841,771	11/24/98	Irwin et al.	370	360	07/03/96
	D	4,339,633	07/13/82	Ahmed	179	99 M	10/06/80
	E	4,631,641	12/23/86	Brombal et al.	361	424	07/18/85
	F	5,412,652	05/02/95	Lu	370	85.12	09/24/93
	G	5,467,348	11/14/95	Fujii et al.	370	60.1	01/06/94
	H	5,838,924	11/17/98	Anderson et al.	395	200.69	08/06/96
	I	5,982,776	11/09/99	Manning et al.	370	414	04/29/97
	J	5,771,234	06/23/98	Wu et al.	370	396	12/06/95
	K	6,067,301	05/23/00	Aatresh	370	418	05/29/98
	L	5,712,851	01/27/98	Nguyen et al.	370	33	01/28/95

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	M	EP 0 817 439 A2	01/07/98	EPO	H04L 12/56		YES	NO
	N	EP 0 868 058 A1	09/30/98	EPO	H04L12/56	H04Q11/04	X	
	O	EP 0 901 307 A2	03/10/99	EPO	H04Q11/04	H04L12/56	X	
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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	R	Tsong-Ho Wu, "Cost-Effective Network Evolution, A three-phase path from today's SONET/STM ring transport to a SONET/ATM VP ring transport could facilitate the network evolution for broadband service," <i>IEEE Communications Magazine</i> , September 1993, 10 pgs.	09/1993
	S	PCT Written Opinion in International Application No. PCT/US00/15426, dated June 26, 2001, 5 pages.	June 26, 2001
	T	Tai H. Noh, "ATM Scenarios for SDH/SONET Networks, XP-000750438, <i>Bell Labs Technical Journal</i> , January-March 1998, 13 pages.	01-03/1998

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	A	6,144,669	11/07/00	Williams et al.	370	401	12/12/97
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	R	International Search Report in International Application No. PCT/US 00/15426, dated September 21, 2000, 7 pages.	09/21/2000
	S	International Search Report in International Application No. PCT/US 00/15425, dated September 7, 2000, 6 pages.	09/07/2000
	T	Kurimoto, et al., "An Expandable Multicast ATM Switch Based on Copy Trunk with New Delay Control and Cell Spacing Functions, XP 000628644, "IEICE Trans. Commun., Vol. E79B, No. 8, August, 1996, 7 pages.	August, 1996

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R	Subramaniam, et al., "Multicasting in ATM networks using MINs", <i>Computer Communications</i> 19, 1996, 11 pages.	1996
S	International Search Report in International Application No. PCT/US00/15336, dated September 4, 2000, 7 pages.	Sept. 4, 2000
T	International Search Report in International Application No. PCT/US 00/15131, dated September 7, 2000, 6 pages.	09/07/2000

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	R <sub>v</sub>	PCT Written Opinion in International Application No. PCT/US00/15131, dated November 8, 2001, 5 pages.	11/08/01
	S <sub>i</sub>	McDysan, David E., et al., "ATM Theory and Application. McGraw-Hill, Inc. ISBN 0-07-060362-6, pp. 365-385.	1994
	T <sub>i</sub>	Erdengiz, Ali, "ATM Usage Policing and Traffic Shaping," Communications System Design (January 1997).	January, 1997

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	R	Dobrowski, George et al., <i>ATM User-Network Interface Specification, Version 3.1</i> , The ATM Forum.	September, 1994
	S	"Cerent 454™ High Speed SONET/SDH Transport System,	ALTS trade show, Las Vegas, Nevada on or about Dec., 1998
	T	"FLM 150 ADM LAN Extension Product Design Specification," Revision 1.1, Internal Design Specification for Product, sheets 6/353-10/353 and 72/353-75/353.	Product publicly released on or about Dec., 1998

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	R	"Product Design Specification (PDS) for FLASH-192, Release 1," Internal Design Specification for Product, pp. 1/916; 4-12/916 315-320/916.	Product publicly released on or about March, 1999
	S	"InterNetworking Systems; AnyMedia® Access Products; AnyMedia Access System," <a href="http://www.lucent.com/ins/products/anymedia.html">http://www.lucent.com/ins/products/anymedia.html</a> .	Printed August 10, 2000
	T	"AnyMedia® Access System," Lucent Technologies, Inc. Marketing Communications.	September, 1999

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	R	"The AnyMedia™ Access System Anything's Possible," Lucent Technologies, Inc. Marketing Communications.	1997
✓	S	Photography of Northern Telecom Card, card dated April, 1998.	
	T	Held, G., <i>Understanding Data Communications</i> , Fifth Edition, Sams Publishing. ISBN No. 0-672-30934-3, Chapter 14, pp. 419-431.	1996

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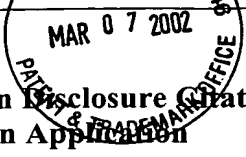
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	R	McCloghrie, K., et al., "Management Information Base for Network Management of TCP/IP-based internets: MIB-II," SNMP Working Group.	March, 1991
	S	"Draft New Recommendation 1.630 (ATM Protection Switching)," ITU Telecommunication Standardization Sector, COM 13-41-E.	September, 1998
	T	"Guérin, R., et al., "Equivalent Capacity and its Application to Bandwidth Allocation in High-Speed Networks," IEEE Journal on Selected Areas in Communications, Vol. 9, No. 7, pp. 968-981.	September, 1991

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	R	Gün, L., et al., "Bandwidth Management and Congestion Control Framework of the Broadband Network Architecture," Computer Networks and ISDN Systems 26, Elsevier Science Publishers B.V., North-Holland, pp. 61-78.	1993
	S	"S/DMS TransportNode 'OC-3 Express'—Cost-Effective SONET Transport for Low-Capacity Applications", Northern Telecom Marketing Publications, Issue 1, pp. 1-31.	September 27, 1996
	T	Universal Serial Bus Specification Revision 1.1, Compaq Computer Corporation, Intel Corporation, Microsoft Corporation, NEC Corporation.	September 23, 1998

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	R	"MMC Products," <a href="http://www.mc-net.com/top-roducts/productdescriptions.html">http://www.mc-net.com/top-roducts/productdescriptions.html</a> ,	Printed July 22, 1999
	S	"MMC Network's Products: AnyFlow 5400," <a href="http://www.mmcnet.com/Solutions/anyflow5400.asp">http://www.mmcnet.com/Solutions/anyflow5400.asp</a> .	Printed February 7, 2000
	T	"MMC Network's Products: AnyFlow 5500," <a href="http://www.mmcnet.com/Solutions/anyflow5500.asp">http://www.mmcnet.com/Solutions/anyflow5500.asp</a> .	Printed February 7, 2000

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	R	"AnyFlow 5400 Product Overview," MMC Networks.	Undated
	S	"AnyFlow 5500 Product Overview," MMC Networks.	Undated
	T	"SwitchStAR™ ATM Cell Based 8 X 8 Non-Blocking Single Chip Switching Memory, Preliminary IDT77V400, Commercial Temperature Range, Integrated Device Technology, Inc., pp. 1-23.	May, 1998

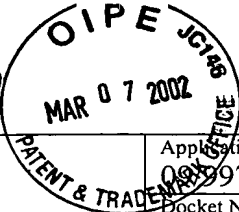
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**FOREIGN PATENT DOCUMENTS**

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	R	"SwitchStAR™ ATM Cell Based 8 X 8 Non-Blocking Single Chip Switch Controller, Preliminary IDT77V500, Commercial Temperature Range, Integrated Device Technology, Inc., pp. 1-14.	May, 1998
	S	Giroux, Natalie et al., <i>Traffic Management Specification, Version 4.0</i> , af-tm-0056.000, The ATM Forum	April, 1996
	T	<i>M4 Interface Requirements and Logical MIB</i> , af-nm-0020.000, The ATM Forum.	October, 1994

EXAMINER

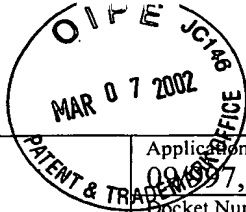
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DAL01:660375.1  
064731.0292

PTO-1449



Application No.

00/057,626

Applicant(s)

Sullivan, et al.

**Information Disclosure Citation  
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Docket Number

064731.0292

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Filing Date

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	R	PCT International Search Report in International Application No. PCT/US 00/15337, dated August 24, 2000, 7 pages.	08/24/2000
	S	K. Sriram, "Methodologies for bandwidth allocation, transmission scheduling, and congestion avoidance in broadband ATM networks," <i>Computer Networks and ISDN Systems</i> , Vol 26, No. 1, September, 1993, 17 pages.	09/1993
	T	Fabrice Guillemin, et al., "Some Traffic Aspects in Virtual Private Networks over ATM," XP-000702583, Source Unknown, April, 1996, 12 pages.	04/1996

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PTO-1449



Application No.

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Applicant(s)

Sullivan, et al.

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Inventor Number

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Group Art Unit

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**U.S. PATENT DOCUMENTS**

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	R	Noriharu Miyaho, et al., "Integrated Switching Architecture and Its Traffic Handling Capacity in Data Communication Networks," XP 000692355, <i>IEEE Trans Commun.</i> , Vol. E79-B, No. 12, December, 1996, 13 pages.	12/1996
	S	M. Huterer, "ATM on SDH," XP 000685832, <i>Alcatel Telecommunications Review</i> , 1st Quarter 1997, January, 1997, 9 pages.	01/1997
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